IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re patent application of

Applicant:

Udayakumar et al.

Application No.: 10/635,994 Filed:

August 7, 2003

For:

LOW SILICON-HYDROGEN SIN LAYER TO INHIBIT HYDROGEN RELATED DEGRADATION IN SEMICONDUCTOR DEVICES HAVING

FERROELECTRIC COMPONENTS

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Filing Date:

Sir:

1. Pursuant to 37 C.F.R. 1.97 and 1.98, and in compliance with 37 C.F.R. 1.56, the Office's attention is
directed to the patents, pending applications, publications and other information listed on the attached PTO-
1449. A copy of each listed document is enclosed except for: (a) pending applications or (b) those
previously cited or submitted to the Office in the following application(s) upon which this application relies for an earlier filing date under 35 U.S.C. 120:
Serial No.:

Regarding any document, publication or other information for which a date is not given on the attached PTO-1449, Applicant(s) believe(s) the same may qualify as "prior" art to this application and should be treated accordingly, although Applicant(s) reserve(s) the right to contest the prior art status of any document, publication or information, should issue arise.

2.	Regarding e	each listed do	cument that	is not in	the Englis	sh language	e, an En	iglish-lan	guage trans	lation
acco	mpanies this	Statement a	is indicated	on the	attached	PTO-1449	or a c	oncise ex	xplanation (of the
relev	ance of the d	ocument is s	et forth in th	e follow	ing docun	nent(s):				

- Copy of each English language version of a search report indicating the degree of relevance found by the foreign office of each document being submitted from the search report.
- Attachment entitled "Concise Explanation of Relevance of Non-English Language (b) ____ Documents".
- 3. Pursuant to 37 C.F.R. 1.97(b) this Statement is being filed (one must be checked):
 - (a)____ Within 3 months of the filing date or date of entry into the National Stage.
 - (b) X Before the mailing date of a first Office Action on the merits. If this Statement is not filed before the mailing date of a first Office Action on the merits, the required certification is given below or, in the absence thereof, the Office is authorized to charge the required fee set forth in 37 C.F.R. 1.17(p) to Deposit Account No. 20-0668 for consideration of this Statement.
 - Before the mailing date of a first Office Action on the merits after a first or second submission under 37 C.F.R. 1.129(a).

(d)	After the period set forth in 37 C.F.R. 1.97(b) but before the mailing date of either a fina action or a notice of allowance.
(1)	_ The required certification is given below, or
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(a)	The undersigned hereby certifies that each item of information contained in this Statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than 3 months prior to the filing of this Statement.
(b)	The undersigned hereby certifies that no item of information contained in this Statement was cited in a communication from a foreign patent office in a counterpart foreign application or to the undersigned's knowledge after making reasonable inquiry, was known to any individual designated in 37 C.F.R. 1.56(c) more than 3 months prior to the filing of this Statement.
	nmissioner is hereby authorized to charge any additional fees or credit any overpayment to
Deposit Accou	ınt No. 20-0668. Respectfully Submitted,
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I hereby certify that this paper (along with any paper or item referred to as being attached or enclosed) is being deposited with the United States Postal Service on the date shown below with sufficient postage as first-class mail in an envelope addressed to Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Date: October 3, 2003 Christine Gillroy

	Complete If Known				
Substitute for Form 1449A/PTO			Application Number	10/635,994	
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	WELLEY			U.S. PATENT D	OCUMENTS	
		U.S. Patent Document		Name of Patentee or	Date of Pub. of	
Exam. Initials*	Cite No. ¹	Number	Kind Code ² (if known)	Applicant of Cited Doc.	Cited Doc. (mm-dd-yyyy)	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	AA	5,452,178		Emesh et al.	09/19/1995	Entire Document
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	AP	2001/0044205	A1	Gilbert et al.	11/22/2001	Entire Document

					FOREIGN PATE	NT DOCUMENTS		
Exam.	Cite No.1	Office ³	oreign Patent Doo Number ⁴	Kind Code ² (if known)	Name of Patentee or Applicant of Cited Doc.	Date of Pub. of Cited Doc. (mm-dd-yyyy)	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T⁵
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Exam. Initials*	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T²
	CA	"FeRAM Tutorial", ALI SHEIKHOLESLAMI and P. GLENN GULAK, A survey of circuit Innovations in Ferroelectric random-access memories, Proceedings of the IEEE, Vol. 88, No. 3, May, 2000, 3 pages, taken from the Internet at: http://www.eecg.toronto.edu/-ali/ferro/tutorial.html.	
	СВ	"A survey of Circuit Innovations in Ferroelectric Random Access Memories", ALI SHEIKHOLESLAMI and P. GLENN GULAK, Proceedings of the IEEE, Vol. 88, No. 5, May, 2000, pp. 667-689.	
	сс	"Generic CVD Reactor", CVD Basics, DANIEL M. DOBKIN, Dec. 7, 2001, 3 pages, taken from th Internet at: http://www.batnet.com/enigmatics/semiconductor_proc_ssing/CVD_Fundam_ntals/introdu	
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OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Exam. Initials*	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	CE	"Parasitic Channel Induced by Spin-On-Glass in a Double-Level Metallization Complimentary Metal Oxide Semiconductor Process", M. MURATA, K. YOMAUCHI, H. KOJIMA, A. YOKOYAMA, T. INOUE and T. IWAMORI, published in the Journal of Electrochemical Society, Volume 149, No. 8, 1993, pgs. 2346-2356.	
	CF	"Effects of Oxygen Content on Properties of Silicon Oxide Films Prepared at Room Temperature by Sputtering-Type Electron Cyclotron Resonance Plasma", KATSUHIKO FURUKAWA, YICHUN LIU, HIROSHI NAKASHIMA, DAWEI GAO, YASUHIRO KASHIWAZAKI, KIICHIRO UCHINO, KATSUNORI MURAOKA and HIROHISA TSUZUKI, Journal of Applied Physics, Volume 84, Number 8, October 15, 1998, pp. 4579-4584.	
	CG	Notes taken at the International Symposium on Applications of Ferroelectrics Conference in Nara, Japan in May, 2002. The speaker was H. Nagel of Infineon Technologies and Toshiba Corporation, Key Technologies for High Density FeRAM Application, one page.	
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